

Kathryn A Davis

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

3,436
citations

136940

32
h-index

189881

50
g-index

97
all docs

97
docs citations

97
times ranked

3474
citing authors

#	ARTICLE	IF	CITATIONS
1	Closed-loop stimulation of temporal cortex rescues functional networks and improves memory. <i>Nature Communications</i> , 2018, 9, 365.	12.8	248
2	Direct Brain Stimulation Modulates Encoding States and Memory Performance in Humans. <i>Current Biology</i> , 2017, 27, 1251-1258.	3.9	207
3	Virtual Cortical Resection Reveals Push-Pull Network Control Preceding Seizure Evolution. <i>Neuron</i> , 2016, 91, 1170-1182.	8.1	185
4	Dynamic Network Drivers of Seizure Generation, Propagation and Termination in Human Neocortical Epilepsy. <i>PLoS Computational Biology</i> , 2015, 11, e1004608.	3.2	148
5	Lateralized hippocampal oscillations underlie distinct aspects of human spatial memory and navigation. <i>Nature Communications</i> , 2018, 9, 2423.	12.8	132
6	White Matter Network Architecture Guides Direct Electrical Stimulation through Optimal State Transitions. <i>Cell Reports</i> , 2019, 28, 2554-2566.e7.	6.4	104
7	A novel implanted device to wirelessly record and analyze continuous intracranial canine EEG. <i>Epilepsy Research</i> , 2011, 96, 116-122.	1.6	95
8	Virtual resection predicts surgical outcome for drug-resistant epilepsy. <i>Brain</i> , 2019, 142, 3892-3905.	7.6	93
9	Continuous EEG is associated with favorable hospitalization outcomes for critically ill patients. <i>Neurology</i> , 2019, 92, e9-e18.	1.1	91
10	Universal automated high frequency oscillation detector for real-time, long term EEG. <i>Clinical Neurophysiology</i> , 2016, 127, 1057-1066.	1.5	86
11	Interictal epileptiform discharges impair word recall in multiple brain areas. <i>Epilepsia</i> , 2017, 58, 373-380.	5.1	84
12	Evidence for verbal memory enhancement with electrical brain stimulation in the lateral temporal cortex. <i>Brain</i> , 2018, 141, 971-978.	7.6	80
13	Alzheimer-like amyloid and tau alterations associated with cognitive deficit in temporal lobe epilepsy. <i>Brain</i> , 2020, 143, 191-209.	7.6	74
14	The effects of direct brain stimulation in humans depend on frequency, amplitude, and white-matter proximity. <i>Brain Stimulation</i> , 2020, 13, 1183-1195.	1.6	73
15	Association of Piriform Cortex Resection With Surgical Outcomes in Patients With Temporal Lobe Epilepsy. <i>JAMA Neurology</i> , 2019, 76, 690.	9.0	69
16	Temporal Lobe Epilepsy Surgical Outcomes Can Be Inferred Based on Structural Connectome Hubs: A Machine Learning Study. <i>Annals of Neurology</i> , 2020, 88, 970-983.	5.3	68
17	MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation. <i>Science Translational Medicine</i> , 2021, 13, eabf8629.	12.4	68
18	Electrical Stimulation in Hippocampus and Entorhinal Cortex Impairs Spatial and Temporal Memory. <i>Journal of Neuroscience</i> , 2018, 38, 4471-4481.	3.6	63

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19	Mapping the structural and functional network architecture of the medial temporal lobe using 7T MRI. <i>Human Brain Mapping</i> , 2018, 39, 851-865.	3.6	60
20	Spatial distribution of interictal spikes fluctuates over time and localizes seizure onset. <i>Brain</i> , 2020, 143, 554-569.	7.6	60
21	Mechanistic target of rapamycin complex 1 and 2 in human temporal lobe epilepsy. <i>Annals of Neurology</i> , 2018, 83, 311-327.	5.3	59
22	Characterizing the role of the structural connectome in seizure dynamics. <i>Brain</i> , 2019, 142, 1955-1972.	7.6	56
23	Electrophysiological Signatures of Spatial Boundaries in the Human Subiculum. <i>Journal of Neuroscience</i> , 2018, 38, 3265-3272.	3.6	55
24	Similar patterns of neural activity predict memory function during encoding and retrieval. <i>NeuroImage</i> , 2017, 155, 60-71.	4.2	52
25	7T Epilepsy Task Force Consensus Recommendations on the Use of 7T MRI in Clinical Practice. <i>Neurology</i> , 2021, 96, 327-341.	1.1	52
26	Neural activity reveals interactions between episodic and semantic memory systems during retrieval.. <i>Journal of Experimental Psychology: General</i> , 2019, 148, 1-12.	2.1	51
27	Glutamate weighted imaging contrast in gliomas with 7T Tesla magnetic resonance imaging. <i>NeuroImage: Clinical</i> , 2019, 22, 101694.	2.7	50
28	Structural and functional asymmetry of medial temporal subregions in unilateral temporal lobe epilepsy: A 7T MRI study. <i>Human Brain Mapping</i> , 2019, 40, 2390-2398.	3.6	49
29	Functional control of electrophysiological network architecture using direct neurostimulation in humans. <i>Network Neuroscience</i> , 2019, 3, 848-877.	2.6	49
30	Mining continuous intracranial <scp>EEG</scp> in focal canine epilepsy: Relating interictal bursts to seizure onsets. <i>Epilepsia</i> , 2016, 57, 89-98.	5.1	46
31	Data integration: Combined imaging and electrophysiology data in the cloud. <i>NeuroImage</i> , 2016, 124, 1175-1181.	4.2	46
32	Recurring Functional Interactions Predict Network Architecture of Interictal and Ictal States in Neocortical Epilepsy. <i>ENeuro</i> , 2017, 4, ENEURO.0091-16.2017.	1.9	44
33	High interictal connectivity within the resection zone is associated with favorable post-surgical outcomes in focal epilepsy patients. <i>NeuroImage: Clinical</i> , 2019, 23, 101908.	2.7	41
34	Time-evolving controllability of effective connectivity networks during seizure progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	41
35	Electrical Stimulation Modulates High $\hat{\nu}$ Activity and Human Memory Performance. <i>ENeuro</i> , 2018, 5, ENEURO.0369-17.2018.	1.9	41
36	Contextually Mediated Spontaneous Retrieval Is Specific to the Hippocampus. <i>Current Biology</i> , 2017, 27, 1074-1079.	3.9	29

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37	Normative intracranial EEG maps epileptogenic tissues in focal epilepsy. <i>Brain</i> , 2022, 145, 1949-1961.	7.6	29
38	An open-source automated platform for three-dimensional visualization of subdural electrodes using CT-MRI coregistration. <i>Epilepsia</i> , 2014, 55, 2028-2037.	5.1	27
39	Quantitative EEG predicts outcomes in children after cardiac arrest. <i>Neurology</i> , 2019, 92, e2329-e2338.	1.1	27
40	Intracranial electroencephalographic biomarker predicts effective responsive neurostimulation for epilepsy prior to treatment. <i>Epilepsia</i> , 2022, 63, 652-662.	5.1	25
41	Readmission after seizure discharge in a nationally representative sample. <i>Neurology</i> , 2019, 92, .	1.1	23
42	Temporal behavior of seizures and interictal bursts in prolonged intracranial recordings from epileptic canines. <i>Epilepsia</i> , 2016, 57, 1949-1957.	5.1	22
43	Electrocorticography and stereo EEG provide distinct measures of brain connectivity: implications for network models. <i>Brain Communications</i> , 2021, 3, fcab156.	3.3	22
44	Human Verbal Memory Encoding Is Hierarchically Distributed in a Continuous Processing Stream. <i>ENeuro</i> , 2019, 6, ENEURO.0214-18.2018.	1.9	21
45	A framework For brain atlases: Lessons from seizure dynamics. <i>NeuroImage</i> , 2022, 254, 118986.	4.2	20
46	Integrating Network Neuroscience Into Epilepsy Care: Progress, Barriers, and Next Steps. <i>Epilepsy Currents</i> , 2022, 22, 272-278.	0.8	20
47	Improved availability and quality of care with epilepsy nurse practitioners. <i>Neurology: Clinical Practice</i> , 2017, 7, 109-117.	1.6	19
48	Wheels Within Wheels: Theory and Practice of Epileptic Networks. <i>Epilepsy Currents</i> , 2021, 21, 243-247.	0.8	19
49	Unsupervised machine-learning classification of electrophysiologically active electrodes during human cognitive task performance. <i>Scientific Reports</i> , 2019, 9, 17390.	3.3	18
50	Pearls & Oysters: Bilateral globus pallidus lesions in a patient with COVID-19. <i>Neurology</i> , 2020, 95, 454-457.	1.1	18
51	The effect of increased intracranial EEG sampling rates in clinical practice. <i>Clinical Neurophysiology</i> , 2018, 129, 360-367.	1.5	17
52	The sensitivity of network statistics to incomplete electrode sampling on intracranial EEG. <i>Network Neuroscience</i> , 2020, 4, 484-506.	2.6	17
53	A Neurological Cause of Recurrent Choking During Sleep. <i>Journal of Clinical Sleep Medicine</i> , 2008, 04, 586-587.	2.6	16
54	The what and when of olfactory working memory in humans. <i>Current Biology</i> , 2021, 31, 4499-4511.e8.	3.9	15

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55	Hospital care for mental health and substance abuse in children with epilepsy. <i>Epilepsy and Behavior</i> , 2016, 57, 161-166.	1.7	14
56	Clinical validation of automated hippocampal segmentation in temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2018, 20, 1139-1147.	2.7	14
57	Addressing barriers to surgical evaluation for patients with epilepsy. <i>Epilepsy and Behavior</i> , 2018, 86, 1-5.	1.7	12
58	Surgical Outcomes in Post-Traumatic Epilepsy: A Single Institutional Experience. <i>Operative Neurosurgery</i> , 2020, 18, 12-18.	0.8	11
59	Pairwise maximum entropy model explains the role of white matter structure in shaping emergent co-activation states. <i>Communications Biology</i> , 2021, 4, 210.	4.4	10
60	Association Between Anatomical Location of Surgically Induced Lesions and Postoperative Seizure Outcome in Temporal Lobe Epilepsy. <i>Neurology</i> , 2022, 98, .	1.1	9
61	Developing and Implementing a Standardized Ictal Examination in the Epilepsy Monitoring Unit. <i>Neurology: Clinical Practice</i> , 2021, 11, 127-133.	1.6	8
62	Quantitative [18]FDG PET asymmetry features predict long-term seizure recurrence in refractory epilepsy. <i>Epilepsy and Behavior</i> , 2021, 116, 107714.	1.7	8
63	Seizure Detection in Continuous Inpatient EEG. <i>Neurology</i> , 2022, 98, .	1.1	8
64	Efficacy and Tolerability of Clobazam in Adults With Drug-Refractory Epilepsy. <i>Neurology: Clinical Practice</i> , 2021, 11, e669-e676.	1.6	7
65	Direct Electrical Stimulation of the Human Brain Has Inverse Effects on the Theta and Gamma Neural Activities. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3701-3712.	4.2	7
66	Volumetric glutamate imaging (GluCEST) using 7T MRI can lateralize nonlesional temporal lobe epilepsy: A preliminary study. <i>Brain and Behavior</i> , 2021, 11, e02134.	2.2	7
67	Theta Synchrony Is Increased near Neural Populations That Are Active When Initiating Instructed Movement. <i>ENeuro</i> , 2021, 8, ENEURO.0252-20.2020.	1.9	7
68	Using Generalized Polyspike Train to Predict Drug-Resistant Idiopathic Generalized Epilepsy. <i>Journal of Clinical Neurophysiology</i> , 2020, Publish Ahead of Print, .	1.7	7
69	Neurophysiological Evidence for Cognitive Map Formation during Sequence Learning. <i>ENeuro</i> , 2022, 9, ENEURO.0361-21.2022.	1.9	6
70	Advanced structural multimodal imaging of a patient with subcortical band heterotopia. <i>Epilepsia Open</i> , 2016, 1, 152-155.	2.4	5
71	A Computationally Efficient Model for Predicting Successful Memory Encoding Using Machine-Learning-based EEG Channel Selection. , 2019, , .		5
72	Inconsistent reporting of drug-drug interactions for hormonal contraception and antiepileptic drugs - Implications for reproductive health for women with epilepsy. <i>Epilepsy and Behavior</i> , 2021, 114, 107626.	1.7	5

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73	A nationwide analysis of maternal morbidity and acute postpartum readmissions in women with epilepsy. <i>Epilepsy and Behavior</i> , 2021, 117, 107874.	1.7	5
74	7T Magnetic Resonance Imaging Quantification of Brain Glutamate in Acute Ischaemic Stroke. <i>Journal of Stroke</i> , 2021, 23, 281-284.	3.2	5
75	The refractory epilepsy screening tool for Lennox-Gastaut syndrome (REST-LGS). <i>Epilepsy and Behavior</i> , 2019, 90, 148-153.	1.7	4
76	Mapping Epileptogenic Tissues in MRI-Negative Focal Epilepsy. <i>Neurology</i> , 2021, 97, 754-755.	1.1	4
77	A neurological cause of recurrent choking during sleep. <i>Journal of Clinical Sleep Medicine</i> , 2008, 4, 586-7.	2.6	4
78	Postdiagnosis neurological care for patients with psychogenic nonepileptic spells (PNES). <i>Epilepsy and Behavior</i> , 2017, 74, 64-68.	1.7	3
79	Network Analyses in Epilepsy. <i>Neurology</i> , 2021, 96, 195-196.	1.1	3
80	Epilepsy Lesion Localization is not Predicted by Developmental Venous Anomaly Location or its FDG-PET Metabolic Activity. <i>Journal of Neuroimaging</i> , 2020, 30, 544-550.	2.0	2
81	Cortical disconnection in temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2021, 123, 108231.	1.7	2
82	MON-110 Utilization of GluCEST, a Novel Neuroimaging Technique, to Characterize the Brain Phenotype in Hyperinsulinism/Hyperammonemia Syndrome. <i>Journal of the Endocrine Society</i> , 2020, 4, .	0.2	1
83	Population-Based Study of Nonelective Postpartum Readmissions in Women With Stroke, Migraine, Multiple Sclerosis, and Myasthenia Gravis. <i>Neurology</i> , 2022, 98, e1545-e1554.	1.1	1
84	Implanting intracranial electrodes does not affect spikes or network connectivity in nearby or connected brain regions. <i>Network Neuroscience</i> , 0, , 1-33.	2.6	1